Work Order ID 84817 Thursday, May 31, 2012 12:44:51 PM Item ID: D350-636-015 Accept *N900040100* Setup Start **Revision ID:** Skidtube STD w/ Training Wearplates, LH Item Name: **Start Date:** 5/23/2012 Start Oty: 1.00 🔯 Ĉust Item ID: Req'd Qty: 1.00 Required Date: 5/24/2012 Customer: CU-DAR001 RMA RA111351 - Return Reference: Run Process Plan: MF Date: 2-05-3) Tooling: **Approvals:** Date: QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Oty Number Stamp Draw Nbr Revision Nbr D3492 EEN ST. RY, ON, CANADA K6A 1K7 D4168 0350-636-015 IIN-D350-636 Skidtube LH B75345 100 LOT 0.00 AS350/355 *100* OC MADE IN CANADA 0.00 Memo INSPECT RA 111351 8 17/14/29 Quality Control D350-636-015 X 1 B75345 (HG 102) DISSASSEMLE TUBE STRIP, REPOWDER COAT AND RE-ASSEMBLE 110 1x / Mulo 6/08 *110* HandFinish Memo Hand Finishing DISSASSEMBLE TUBE AND SCRAP HARDWARE STRIP ENTIRE TUBE, D 3488-04 AND D2741

84817

Page 2

Thursday, May 31, 2012 12:44:51 PM ' Item ID: D350-636-015 Accept *N900040100* Setup Start Revision ID: Item Name: Skidtube STD w/ Training Wearplates, LH 5/23/2012 **Start Date:** Start Oty: 1.00 **Cust Item ID: Required Date:** 5/24/2012 Reg'd Oty: 1.00 **Customer:** CU-DAR001 Reference: RMA RA111351 Run Approvals: **Process Plan:** Date: Tooling: Date: QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Set Up/ Tool # Plan Reject Accept Reject Insp. Work Center ID Description Run Hours Otv Code **Qty** Number Stamp 120 QC5- Inspect part completeness to step on W/O *120* OC Memo Quality Control 130 Chemical Conversion Coat per QSI005 4.1 0.00 *120* HandFinish 0.00 Memo Hand Finishing Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch. 140 QC3- Inspect Part Finish 0.00 *1//0* OC 0.00 Memo Quality Control

84817

Page 3

Thursday, May 31, 2012 12:44:51 PM Item ID: D350-636-015 Accept *N900040100* Setup Start **Revision ID:** Item Name: Skidtube STD w/ Training Wearplates, LH **Start Date:** 5/23/2012 Start Otv: 1.00 **Cust Item ID: Required Date:** 5/24/2012 Rea'd Otv: 1.00 **Customer:** CU-DAR001 Reference: RMA RA111351 Run Start Approvals: Date: Tooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Reject Tool# Plan Accept Reject Insp. Work Center ID Description Run Hours Code Otv Number Oty Stamp 150 White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum 0.00 *150* Powdercoat 0.00 Memo Powder Coating REPOWDER COAT TUBE, D2741 AND D3488-04 OVEN TEMPERATURE: FINISH TIME: 160 QC3- Inspect Part Finish 0.00 *160* QC 0.00 Memo Quality Control

Thursday, May 31, 2012 12:44:51 PM

Item ID: Revision ID:	D350-636-0				Accept	*N900	1 040	1100)* s	Setup St	art 🛪	N.	31 *
tem Name: Start Date: Required Date: Reference:	Skidtube ST 5/23/2012 5/24/2012 RMA RA1	Start Qt Req'd Q	y: 1.00	*1* *1*		Cust Item Customer		DAR001		S	top ★	MS	3 2*
Approvals:	Process Pl	an:		Date:	Tooling:	[Date:		R			NF	R1*
	QC:			Date:	SPC (Y/N):	I	Date:			S	top 🛧	NF	R2*
Sequence ID/ Work Center II)	Operatio Descripti			Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reje Num		Insp. Stamp
170 HandFinish Hand Finishing			Memo	erts as per Dwg D4168	0.00				()	B		P	12/06/07
iuna i mishing				Foreign Objects					LH				
				de of tube with "LPS-3"	batch: N//A								
			3-Install blace per dwg D41 SIKA FLEX BATCH:	de fitting D3488-041, we 68 241.	earshoes and ground handlin	ng hardware as							
			4-assemble of	-1 -	D3492 and apply o'ring lub	e							
			5-Coat all ex	posed fasteners with "LF	PS Procyon" batch: 114	596~							
^{ଃ₀} *1ጸ∩*		QC5- Inspec	ct part comple	eteness to step on W/O	0.00	las							
QC Quality Control			Memo		0.00	e10 f					···· -		
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12/6/1880



Quality Control

Thursday, May 31, 2012 12:44:51 PM Item ID: D350-636-015 Accept *N900040100* Setup Start **Revision ID:** Item Name: Skidtube STD w/ Training Wearplates, LH **Start Date:** 5/23/2012 Start Qty: 1.00 **Cust Item ID:** Req'd Qty: 1.00 Required Date: 5/24/2012 **Customer:** CU-DAR001 Reference: RMA RA111351 Run Process Plan: Approvals: Date: Tooling: Date: Stop SPC (Y/N): Date: Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. **Work Center ID** Description **Run Hours** Qty Code **Qty** Number Stamp 190 Identify as per dwg & Stock Location: *190* Packaging 0.00 Packaging ID AND STOCK UNDER NEW BATCH NUMBER 2 MLS 12-6-19 (46002 200 QC21- Final Inspection - Work Order Release 0.00 12/6/22 70) MUS 17 (06/21 *200* QC 0.00 Memo

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Work Order ID:

84817

Parent Item:

D350-636-015

Parent Item Name:

Skidtube STD w/ Training Wearplates, LH

Start Date: 5/23/2012

Required Date: 5/24/2012

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP rev:A 10.09.28 new issue DD verf:EC

DD verf:EC

IPP Rev:B 11.04.14 ecn11-553 IPP Rev:C 11.10.18 as per NCR 11-906 DD verf:EC

IPP

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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					768	62							
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Thursday, May 31, 2012 12:44:49 PM

Work Órder ID:	84817						
Parent Item:	D350-636-015					Start Date: 5/23/2012	Required Date: 5/24/2012
Parent Item Name:	Skidtube STD w/ Training V	Wearplates, LH				Start Qty: 1.00	Required Qty: 1.00
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			Location	Loc Qty	Loc C	<u>Code</u>	· - •
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			117619	10			_
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Thursday, May 31, 2012 12:44:49 PM

Work Order ID: Parent Item: Parent Item Name:	84817 D350-636-015 Skidtube STD w/ Tra	aining Wearplates, l	_H							Oate: 5/23/2012 Qty: 1.00	Required Date: 5/24/2012 Required Qty: 1.00
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Work Order ID:	84817		-					
Parent Item:	D350-636-015					Start Date	e: 5/23/2012	Required Date: 5/24/2012
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Work Order ID:	84817										
Parent Item:	D350-636-015							Start	Date: 5/23/2012	Required	Date: 5/24/2012
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Thursday, May 31, 2012 12:44:50 PM

Work Order ID: 84817 Parent Item: D350-636-015 **Start Date:** 5/23/2012 Required Date: 5/24/2012 Skidtube STD w/ Training Wearplates, LH Start Qty: 1.00 Parent Item Name: Required Qty: 1.00 DA170-1 Manufactured Each 95.0000 Bushing Location Loc Qty Loc Code LG 50 82222 50 LG001 45 5 40 D4171-1 Manufactured No Each 22.0000 +2/06/06. Bushing Location Loc Qty Loc Code ST104 22 2 77008 20 82385 MS21043-3 J No Each Purchased 1,561.0000 Nut Location Loc Qty Loc Code FG 72 103691 72 GA 18 120693 18 ST301 1471 118077 2 118614 51 118686 30 119758 20 368 121255 121708 1000

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Thursday, May 31, 2012 12:44:50 PM

Work Order ID: 84817 Parent Item: D350-636-015 **Start Date:** 5/23/2012 Required Date: 5/24/2012 Parent Item Name: Skidtube STD w/ Training Wearplates, LH Start Qty: 1.00 Required Qty: 1.00 Purchased No Each 622.0000 NUT Location Loc Code Loc Qty FG 20 103693 20 ST301 602 117887 2 118384 100 120308 500 Purchased No Each 82.0000 Location Loc Qty Loc Code 304 76 30 46 FP002 115884 ST303 115884

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Work Order ID: 84817 Parent Item: D350-636-015 **Start Date:** 5/23/2012 Required Date: 5/24/2012 Skidtube STD w/ Training Wearplates, LH Parent Item Name: Start Qty: 1.00 Required Qty: 1.00 Purchased No Each 82.0000 NUT Location Loc Qty Loc Code 304 76 121185 30 121349 46 FP002 115884 ST303 115884 118077 119309 119638 ST304 121524 NAS1149C0363R No Each Purchased 2,958.0000 Washer Location Loc Oty Loc Code ST297 2958 114742 2958 NAS1149C0832R No Each 258.0000 Purchased WASHER Location Loc Qty Loc Code ST297 258 114915 🗸 258 NAS1149D0863J Purchased No Each 251.0000 WASHER Location Loc Qty Loc Code ST298 251 118078 34 119307 17 120308 100 121556 100

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Thursday, May 31, 2012 12:44:50 PM

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	R	esolution:	Disposition	n:	QA: N/C	Closed:		Date: _	
NCR:			WORK ORDI	ER NON-CONFORMA	NCE (NC	R)			,
DATE	STEP	Description of NC		Corrective Action Section		Verific	cation	Approval	Approval
	01:21	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat		ion C	Chief Eng	QC Inspector
	·								-
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1 ,	1		1		1			Ī	1

			0			, 6
	QTY -041	QTY -042	QTY -043	QTY -044	PART NUMBER	DESCRIPTION
	x				D4168-041	350 SKIDTUBE ASSEMBLY, LH
		Х			D4168-042	350 SKIDTUBE ASSEMBLY, RH
			X		D4168-043	350 SKIDTUBE ASSEMBLY, LH
			Ĺ	X	D4168-044	350 SKIDTUBE ASSEMBLY, RH
D	1	1	1	1	D2739	WEB
	8	8	8	8	D2743	SPACER
	1	1	1	1	D2744	CAP
	· 8	8	8	8	D2745	BUSHING
	1		1		D3488-041	BLADE FITTING, LH
		1		1	D3488-042	BLADE FITTING, RH
	4	4	4	4	D3490-1	SPACER
	4	4			D3490-3	SPACER
_			4	4	D3490-5	SPACER
	8	8	- 8	8	D3492-041	PLUG ASSEMBLY
	8	8			D3492-043	PLUG ASSEMBLY
			8	8	D3492-045	PLUG ASSEMBLY
ŀ	8	8	8	8	D3631-1	WASHER
	7	7	7	7	D3873-1	BUSHING
	1	_1	1	1	D4154-041	WEARPLATE ASSEMBLY
	1				D4168-1	SKIDTUBE WELDMENT, LH
С		1			D4168-2	SKIDTUBE WELDMENT, RH
			_ 1		D4168-3	SKIDTUBE WELDMENT, LH
				1	D4168-4	SKIDTUBE WELDMENT, RH
	4	4	4	4	D4170-1	SPACER
į	1	1	1	1	D4171-1	BUSHING
i						
	4	4	4	4	ALS4-1032-225	INSERT
	4	4	4	4	AN3C6A	BOLT
	1	.1	_1_	1	AN3C34A	BOLT
į	4	4	4	4	AN3C36A	BOLT
- 1	4	4	4	4	AN6C44A	BOLT
ļ	1	1	1	1	AN8C35A	BOLT
j	9	9	9	9	AN960C10	WASHER (OR NAS1149CO363R)
	.4	4	4		AN960C10L	WASHER (OR NAS1149CO332R)
ļ	1	1	1		AN960C816L	WASHER (OR NAS1149CO832R)
в	5	5	5		MS21043-3	NUT
вÌ	4	4	4		MS21043-6	NUT
ļ	1	1	1		MS21083C8	NUT
- [4	4	4	4	NAS1515H3L	WASHER

GENERAL NOTES:

1) MATERIAL: MAKE D4168-1/-2/-3/-4 FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).

FINISH:

MATERIAL: MARE D4188-17-27-37-4 FROM D2800-3 EXTRUSION (INITIAL LENGTH = 120.0).

FINISH:

CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIOR TO INSTALLING D2739 WEB.

POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3

BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL).

TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

UNITS: INCHES UNLESS OTHERWISE NOTED

BREAK SHARP EDGES: IN/A

IDENTIFICATION: IN/A

WEIGHT: D4168-041/-042/-043/-044 = 32.3 LBS

WELD PER DART QSI 004

FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:

MINIMUM UTILIMATE TENSILE STRENGTH = 35 KSI

MINIMUM UTILIMATE TENSILE STRENGTH = 38 KSI

COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MER DEGREASER.

SPACER AND PLUG INSTALLED SAME AS SECTION AJ-AJ EXCEPT HORIZONTAL

SPACER AND PLUG INSTALLED SAME AS SECTION AP-AP EXCEPT HORIZONTAL

D

Α	NEW IS:	SUE			T	SC	10.08.09
REV.			DESCRIPTION			BY	DATE
DESIGN		SC	DART	A EROS	PACE	USA	INC
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CHECKE	D	(I)	DRAWING NO.				REV. A
MFG. AF	PR.	1	D4168			5	SHEET 1 OF 11
APPRO\	/ED	WH	TITLE				SCALE
DE APP	R.	#-	350 SKID	TUBE	ASSEI	MBLY	NTS
DATE	10.0	8.09	NOT TO BE USED FOR AN	E AND CONFIDENTA PURPOSE OR COP	Y DART AERO	N THE EXPRESS ED TO ANY OTH	COMPRIMENTAL THAT IT IS

D4168-041 350 SKIDTUBE ASSEMBLY, LH

D4168-042 350 SKIDTUBE ASSEMBLY, RH

*84817

DESIGN SC		DART AEROSPACE USA, IN	<u></u>			
DRAWN	SÇ	PORT HADLOCK, WA	U .			
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MFG. APPR.	Ma	¬ D4168	SHEET 2 OF 1			
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DE APPR.	-#-	350 SKIDTUBE ASSEMBLY	NTS			
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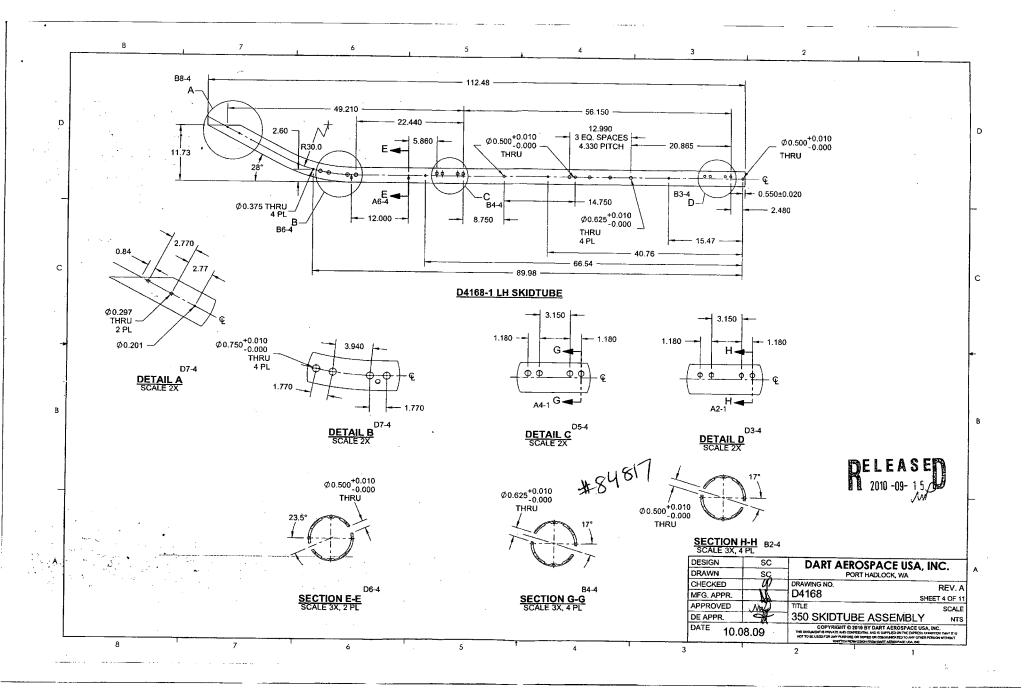
D4168-043 350 SKIDTUBE ASSEMBLY, LH

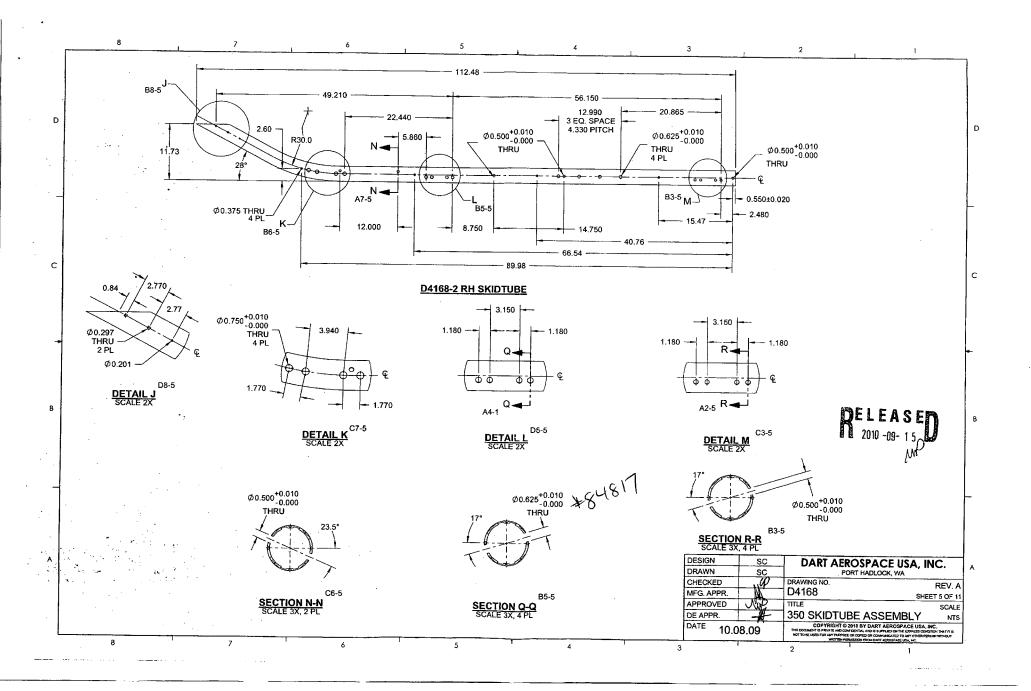
D4168-044 350 SKIDTUBE ASSEMBLY, RH

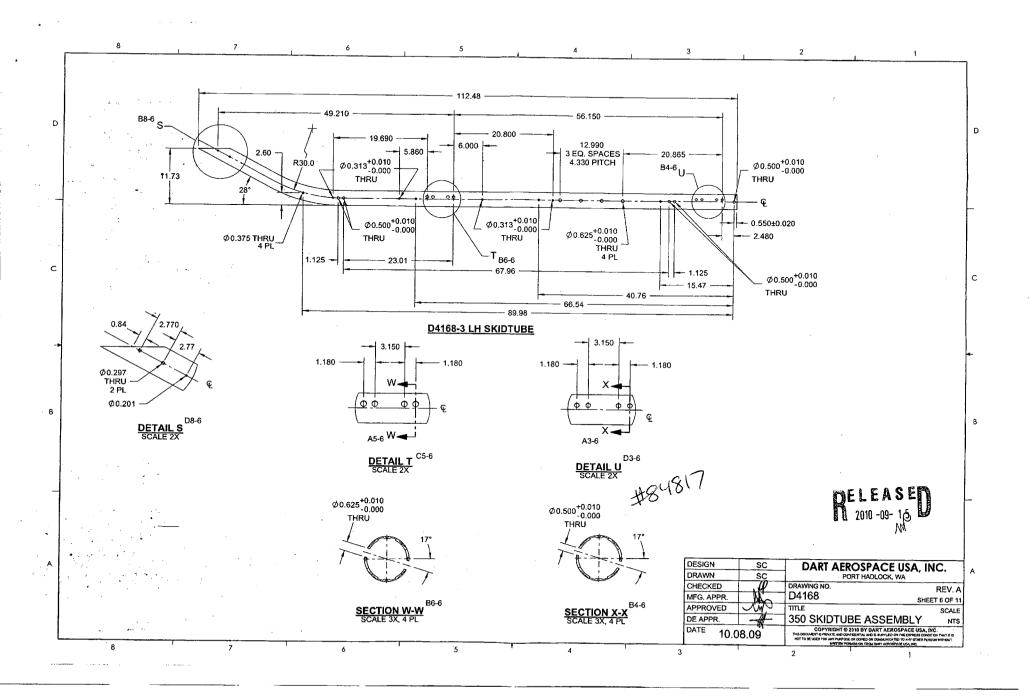
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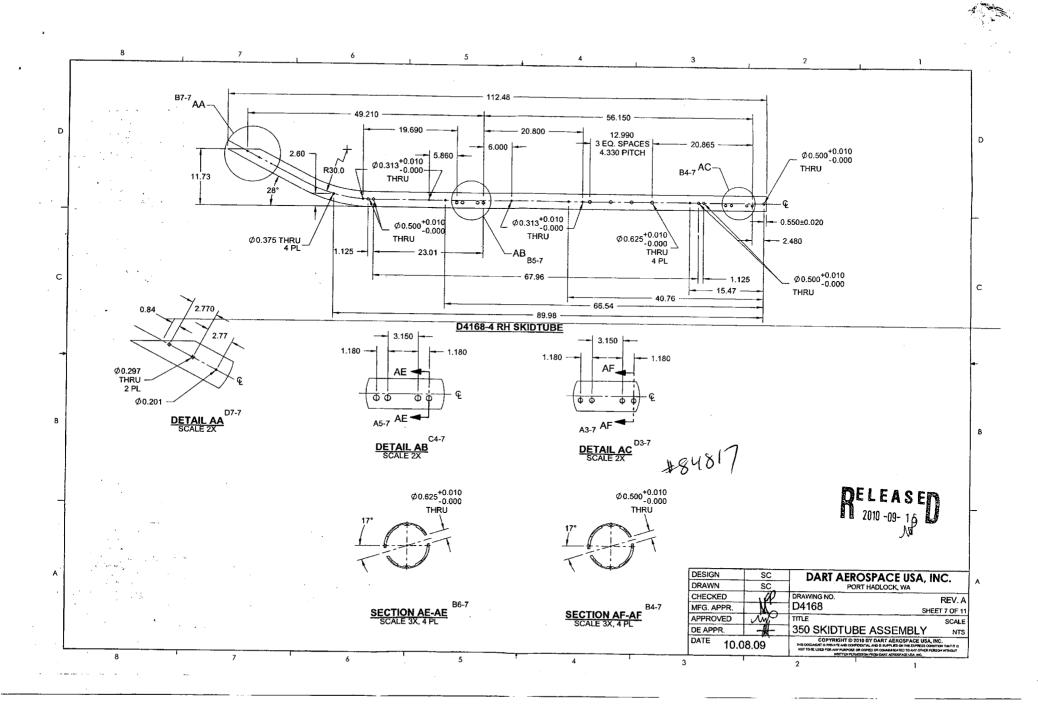
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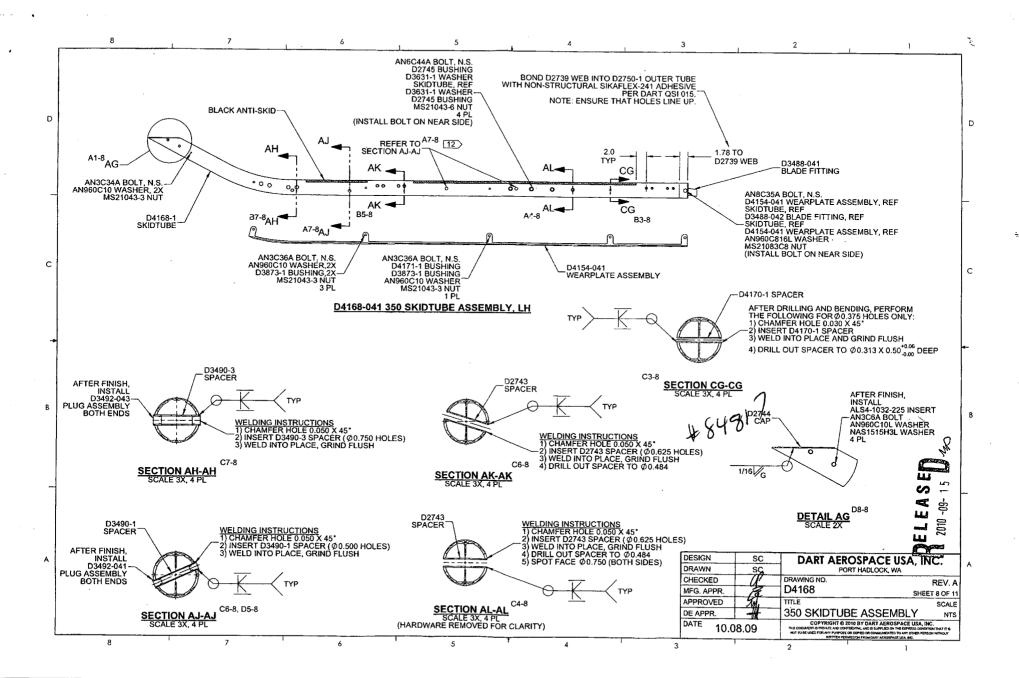
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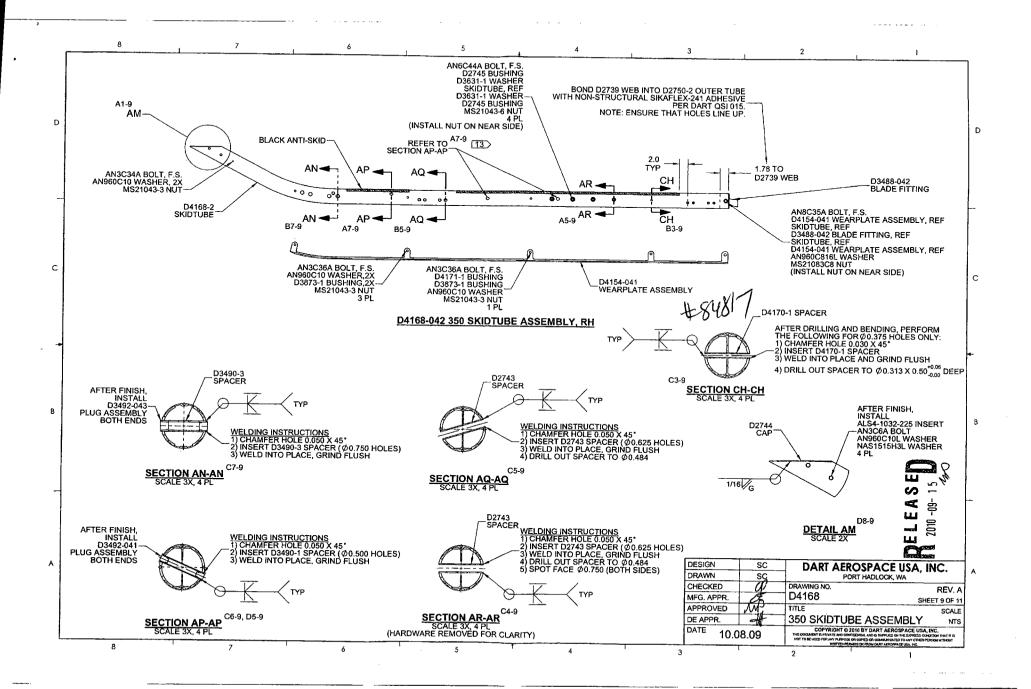


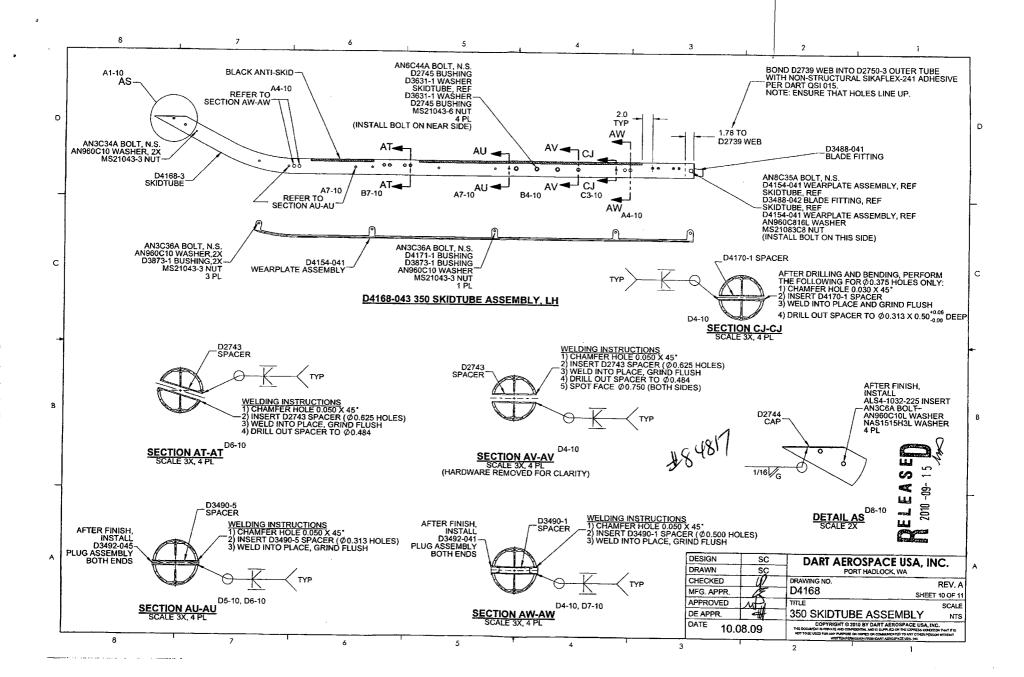


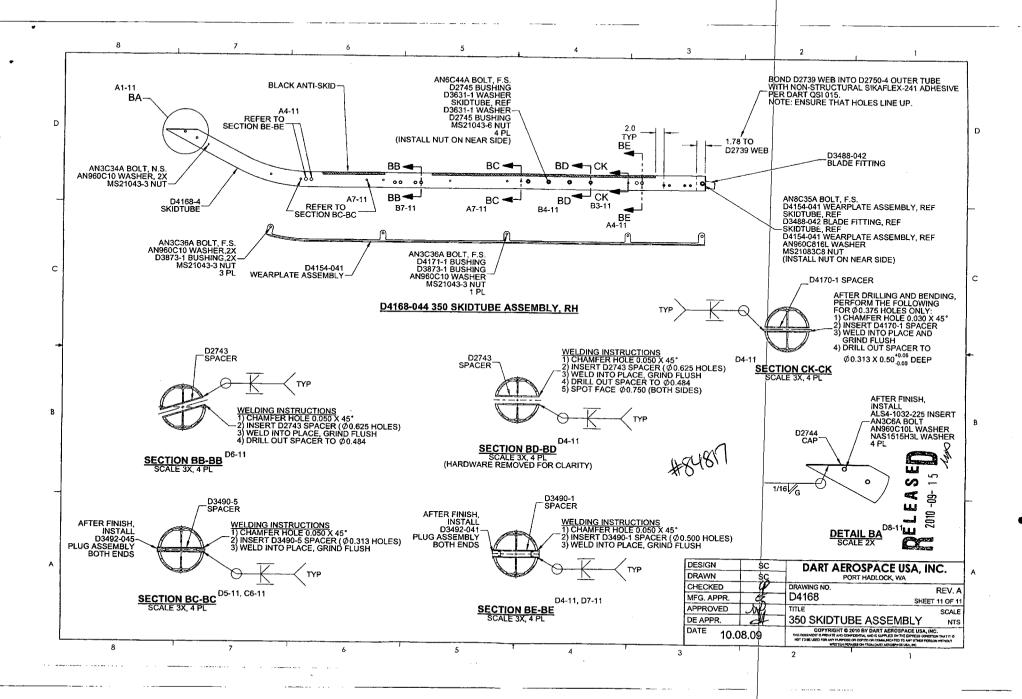












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RA 111351 D350-636-015 B75345

Received @ April 19th Dart, 2012 Inspected@ Dart April 29th, 2012 Customer: Mustang Helicopters Customer Contact: Jim Moore Shipped from: Blackfalds AB CANADA

Instructions for RA 111351 D350-636-015 B75345 CHG002

- Kit has been all used and all returned in zip-lock bag
- Paper work is opened therefore no longer any good
- Only D2741 Blade is savable in Kit
- Dissemble tube
- Strip tube complete
- Strip Blade Fitting D3488-041
- Strip Blade D2741
- Re alodine if necessary and re powder coat tube and D3488-041 & D2741
 - o Re powder coat as per QSI 005 Gloss White
- Re assemble as per drawing
- Re pick kit for packaging
- Needs new PAPER WORK and LABELS
- Needs new BATCH #
- All work done needs to be under new Work Order #

<u>Time Estimate</u> = 5 HOUR (Finishing & stores)

<u>Departments Required:</u> Finishing & Stores

<u>Pictures Attached</u> = YES

THIS INSTRUCTION SHEET MUST BE ATTACHED TO THE RESTOCKING WORK ORDER AT ALL TIMES!!!!